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APPLICATION NO.	· FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/937,851	12/04/2001	Shoaa Abdul Rahman	003300-852	7107
21839	7590 02/10/2005		EXAM	INER
BURNS DOANE SWECKER & MATHIS L L P POST OFFICE BOX 1404 ALEXANDRIA, VA 22313-1404			JASTRZAB, KRISANNE MARIE	
			ART UNIT	PAPER NUMBER
ALEXANDRI	A, VA 22313-1404		1744	
			1/44	

DATE MAILED: 02/10/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

		1/b
. •	Application No.	Applicant(s)
Office Action Occasion	09/937,851	RAHMAN ET AL.
Office Action Summary	Examiner	Art Unit
	Krisanne Jastrzab	1744
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim  within the statutory minimum of thirty (30) days  will apply and will expire SIX (6) MONTHS from  cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status		
Responsive to communication(s) filed on <u>28 Secondary</u> This action is <b>FINAL</b> . 2b)⊠ This Since this application is in condition for allowant closed in accordance with the practice under Expression is the practice under Expression in the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ☐ Claim(s) 1-20 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-6,8,9,11-13,15-17,19 and 20 is/are r 7) ☐ Claim(s) 7,10,14 and 18 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.	
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Examiner  9) The specification is objected to by the Examiner  10) The oath or declaration is objected to by the Examiner	epted or b) objected to by the Edrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)	» <b>П</b>	
<ul> <li>Motice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)</li> <li>Paper No(s)/Mail Date <u>9/28/2001</u>.</li> </ul>	4)	

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### **DETAILED ACTION**

### Specification

This application does not contain an abstract of the disclosure as required by 37 CFR 1.72(b). An abstract on a separate sheet is required.

## Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1-6, 8-9, 11-13, 15-17 and 19-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Miyoshi U.S. patent No. 5,252,304 in view of Rosinger et al., U.S. patent No. 4,085,147.

Miyoshi teaches sterilization of an enclosure by heating formalin to release formaldehyde to achieve sterilization. See column 1, lines 30-40, column 4, lines 50-60-8 and the claims.

Rosinger et al., teach that it is known and expected that hexamethylenetetramine is a precursor to formaldehyde and releases formaldehyde in an exothermic reaction with reaction temperatures from 10° to 150°C. See column 1, lines 40-60.

It would have been obvious to one of ordinary skill in the art to optimize the release of formaldehyde in the system of Miyoshi by substituting the known and expected heat of the exothermic reaction of hexamethylenetetramine itself releasing formaldehyde, because it would employ known chemistry to enhance the formaldehyde generation without requiring an outside or secondary heat source.

With respect to claims 3 and 9, it would have been well within the purview of one of ordinary skill in the art to determine the quantities necessary to provide the appropriate heat and formaldehyde release based on the instant sterilization requirements of the given enclosure.

With respect to claims 5-6, 11-13, 15-17 and 19-20, it would have been well within the purview of one of ordinary skill in the art to determine the optimal ratios and

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concentrations needed to provide sterilizing amounts of formaldehyde in the given enclosure.

## Allowable Subject Matter

Claims 7, 10, 14 and 18 are is found to be free of the prior art.

The following is a statement of reasons for the indication of allowable subject matter: the closest prior art of record fails to teach or suggest the admixture of sulphur sublime, red iron oxide, silica and citric acid along with hexamethylenetetramine in an exothermic reaction for heating formalin to achieve release of formaldehyde.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Krisanne Jastrzab whose telephone number is 571-272-1279. The examiner can normally be reached on Mon.-Wed. 6:30am-4:00pm and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert J. Warden can be reached on 571-272-1281. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Kriśanne (last/zab Primary Examiner Art Unit 1744

February 7, 2005